QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	37.33	8	8
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 sets /31-100 cum	90.24	10	10

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-24-27 **Date: 29-12-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.14	-
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Agency/Representative

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-24-27** **Date: 29-12-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-24-27** **Date: 29-12-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-24-27** **Date: 28-12-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-24-27** **Date: 28-12-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-24-27** **Date: 28-12-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	9.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-04-24-27** **Date: 27-12-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	26-12-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-27 **Date: 04/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-01-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	151.96 X 150.48 X 151.25	22868	8.170	537.3	23.5	23.3
2	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	149.01 X 150.77 X 151.47	22466	8.957	508.8	22.6	
3	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	150.02 X 150.52 X 150.02	22581	8.813	534.8	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-27 **Date: 14/01/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-01-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	150.94 X 150.60 X 149.09	22732	8.227	430.0	18.9	18.8
2	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	149.11 X 150.02 X 151.72	22369	8.222	420.0	18.8	
3	Drain Bottom Raft Concrete	M20	07/01/2023	14/01/2023	149.82 X 150.59 X 151.83	22562	8.141	421.9	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/02/2023

Lab ID	:	**CP-2023-04-24-27**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/01/2023	07/02/2023	151.24 X 151.08 X 149.35	22850	8.134	538.3	23.6	23.0
2	Drain Side Wall Concrete	M20	10/01/2023	07/02/2023	150.53 X 151.99 X 150.76	22879	8.914	507.7	22.2	
3	Drain Side Wall Concrete	M20	10/01/2023	07/02/2023	151.00 X 150.04 X 149.40	22655	8.382	527.2	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/01/2023

Lab ID	:	CP-2023-04-24-27
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	151.84 X 151.13 X 150.77	22947	8.873	426.0	18.6	18.5
2	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	149.33 X 151.30 X 149.58	22594	8.944	412.3	18.2	
3	Drain Side Wall Concrete	M20	10/01/2023	17/01/2023	151.00 X 150.94 X 150.64	22793	8.803	428.3	18.8	

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A.E.E

CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-27 **Date: 04/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-01-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.05 X 151.16 X 150.11	22531	8.356	575.5	25.5	25.4
2	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	151.31 X 151.92 X 151.39	22988	8.778	603.5	26.3	
3	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	150.83 X 149.90 X 151.38	22610	8.286	554.5	24.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-24-27**	**Date: 04/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"	
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-01-23	
Customer ID	:	Cement Concrete Pavement	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M30 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	04/02/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.08 X 149.70 X 149.45	22317	8.623	574.5	25.7	25.4
2	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	151.41 X 150.48 X 151.81	22785	8.301	605.7	26.6	
3	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.30 X 150.78 X 149.56	22512	8.143	540.4	24.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/02/2023

Lab ID	:	**CP-2023-04-24-27**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	151.12 X 149.41 X 150.44	22580	8.891	574.2	25.4	25.5
2	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	150.31 X 149.11 X 149.33	22413	8.680	588.0	26.2	
3	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	149.25 X 149.84 X 151.03	22364	8.815	552.4	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-04-24-27	**Date: 06/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"	
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-02-23	
Customer ID	:	Cement Concrete Pavement	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M30 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	06/02/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	149.12 X 151.72 X 150.02	22625	8.742	585.8	25.9	25.7
2	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	149.18 X 150.72 X 150.78	22485	8.430	592.4	26.3	
3	Cement Concrete Pavement	M30	30/01/2023	06/02/2023	150.59 X 151.38 X 150.59	22796	8.386	563.7	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-27 **Date: 27/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 27/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/01/2023	27/02/2023	149.28 X 149.34 X 151.07	22292	8.349	752.3	33.7	33.3
2	Cement Concrete Pavement	M30	30/01/2023	27/02/2023	149.57 X 149.13 X 149.11	22305	8.881	730.8	32.8	
3	Cement Concrete Pavement	M30	30/01/2023	27/02/2023	150.70 X 149.99 X 151.19	22605	8.647	754.1	33.4	

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